

# SHARP®

PN-V602

60" Class (60" Diagonal) Ultra-Slim Bezel  
Ultra-High Brightness Video Wall Monitor

## SHARP QUALITY AND BRILLIANCE

FOR VIDEO WALLS OF VIRTUALLY LIMITLESS SIZE AND POTENTIAL

### Bravo Baroque!

The best-loved works of 4 Baroque maestros:  
Bach, Händel, Vivaldi, and Pachelbel

# Touchboards

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Introducing the 60" Diagonal Class PN-V602 LCD video wall monitor with exceptionally high brightness, extraordinary image quality and ultra-slim bezel design.

## High Brightness, High Visibility

With exceptionally high brightness of 1,500 cd/m<sup>2</sup>, the PN-V602 excels in brightly lit indoor applications including window facing settings with high ambient light. Its high contrast helps ensure images are clearly visible from a distance, enabling PN-V602 video wall displays to be utilized in sports and entertainment facilities, transportation hubs, shopping malls and control centers where the PN-V602 can provide vivid high quality images, 24 hours a day, seven days a week.

## Breathtaking Image Quality

The PN-V602's exceptional image quality comes from Sharp's industry leading LCD technologies. Sharp proprietary UV<sup>2</sup>A\* technology incorporated into the 60" diagonal class LCD panel provides highly efficient use of light from the full-array LED backlight while simultaneously preventing light leakage. The results are exceptionally high quality images with bright whites, amazingly vivid colors and extremely deep blacks.

Sharp's full-array LED backlight, with LED elements evenly positioned across the entire panel, helps ensure that Sharp multi-screen displays are bright, beautiful and uniform.

\* UV<sup>2</sup>A stands for "Ultraviolet-induced Multi-domain Vertical Alignment," a photo-alignment technology that ensures uniform alignment of liquid crystal molecules in a certain direction.

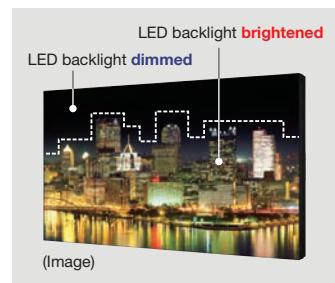


(Image)

## Local Dimming for High Contrast and Superb Energy Efficiency

Much of the PN-V602's exceptional performance – including outstanding black levels, high contrast and superb energy efficiency is due to local dimming of the LED backlight. Local dimming allows specific groups of LEDs to be dimmed for greater control of brightness and darkness in different areas of the screen. Since LEDs in a black area of the screen image can be independently turned off, local dimming can help to considerably reduce power consumption. This helps the PN-V602 deliver significantly better contrast (up to 1,000,000:1 contrast ratio with local dimming set to HIGH) and brightness (up to 1,500 cd/m<sup>2</sup>) compared to conventional LCD monitors, while utilizing less power.

### Local Dimming



(Image)

### Power Consumption Comparison\*

1,500 cd/m <sup>2</sup> Local dimming: OFF	500W
1,500 cd/m <sup>2</sup> Local dimming: HIGH	270W
(ref) 700 cd/m <sup>2</sup> Local dimming: HIGH	155W

\* Results of Sharp measurements when displaying broadcast content (sub-clause 11.6) stipulated under IEC 62087 Ed. 2.0 and with brightness set to maximum. Note that the power consumption reduction will vary depending on the images displayed.

#### Notes:

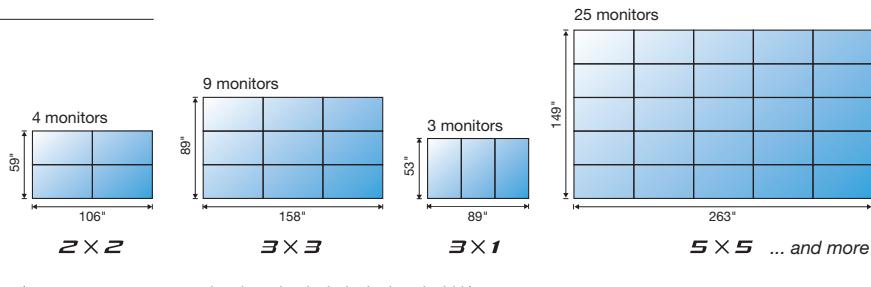
1. The PN-V602 is intended for use in indoor environments. If the monitor is installed in a location exposed to excessive direct sunlight such as a windowfront, consult your installer to determine if additional measures to reduce ultraviolet and infrared radiation and ambient temperature are required.
2. The images in this brochure are simulated. Depending on the system, additional software/hardware may be required.

Create virtually seamless video walls with incredible brightness in almost any size and configuration.

## Create Dynamic Video Walls

Almost any number of PN-V602 displays can be joined together to create high impact multi-screen video walls. These configurations may be controlled through RS-232C or over a network.\* Their ease of control and ease of integration help simplify the design and installation of sophisticated video wall displays of most any size and shape.

\* Optional PN-ZB02 expansion board is required for network control.



(measurements are approximations that include the bezel width)

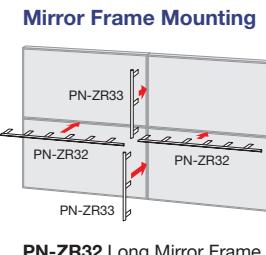
## Choice of Installation Mode

The PN-V602 offers the choice of landscape, portrait or "face-up/face-down" installation. This allows customers to select the mode that best suits their content and application, greatly expanding the possibilities for video walls and digital signage displays.

## Mirror Frames (option)

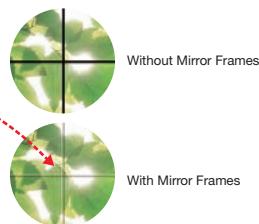
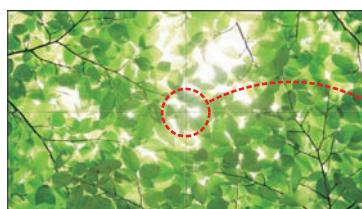
In multi-screen configurations, mirror frames minimize\* the lines between slim-bezel PN-V602 displays by reflecting mirror images from the display content. This helps create more dynamic video walls with an even smoother big-picture effect.

\* Visibility of the seams between monitors will vary depending on on-screen images and viewing angle.



PN-ZR32 Long Mirror Frame  
PN-ZR33 Short Mirror Frame

## A Multi-Screen Configuration with Mirror Frames



## Brightness Sensor\*

The brightness sensor function automatically adjusts backlight brightness to complement surrounding ambient light levels. In dark environments, backlight brightness automatically lowers, helping provide optimal viewing, along with energy savings.

\* Requires optional PN-ZR01 control kit.

## PN-ZR01 Control Kit (option)

When one of the monitors in a multi-screen configuration is fitted with a remote control sensor box, all of the monitors can be conveniently operated through one remote control unit. (UPC: 074000069022)



Remote control unit  
Remote control sensor box

## Ultra-Slim Bezel for Dynamic Video Walls

The PN-V602 boasts the slimmest bezel in the 60" diagonal class of LCD monitors\*<sup>1</sup> resulting in the lines between neighboring monitors in a video wall being only 6.5 mm<sup>\*2</sup> wide (2.4 mm right and bottom; 4.1 mm left and top)<sup>\*3</sup>. This enables the high impact display of video wall images of almost unlimited size and configuration.

\*1 Based on available information as of September 1, 2011

\*2 Does not include gap between monitors

\*3 Non display area for neighboring monitors is 7.1 mm



## Enlarge (Zoom) Display Mode (for up to 25 Monitors)

The Enlarge (Zoom) display mode can spread one image across up to 25 monitors (in a 5x5 configuration) from a single PC, and without the need for external processors. The Frame Width Adjustment function virtually eliminates misalignment and helps enhance the quality of the enlarged image on a multi-screen display.



Single-screen display

5 x 5 (25-screen) display

## 24/7 Operation

Engineered for 24/7 certified commercial use, Sharp LCD video wall displays are designed to provide the reliability and durability needed for most any professional application.

## ENERGY STAR® Qualified

Sharp LCD video wall displays conform to ENERGY STAR qualifications, as well as the RoHS Directive restricting the use of hazardous substances.



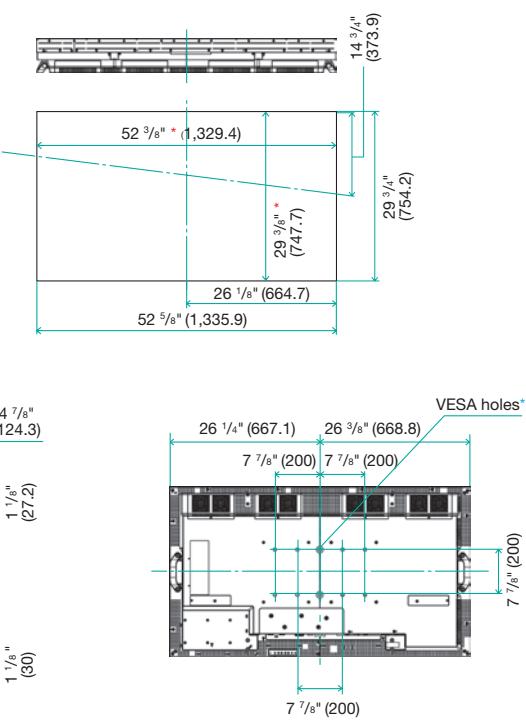
## Specifications

Model Name	PN-V602
Installation	Landscape / Portrait / Face-up / Face-down (Note, face-up operation requires optional PN-ZR31 fan cover kit)
LCD Panel	60-inch class (60" diag.) widescreen (152.4 cm diag.), UV2A LCD
	Max. Resolution 1,366 x 768 pixels
	Max. Display Colors (approx.) 16.77 million colors
	Pixel Pitch (H x V) 0.973 x 0.973 mm
	Max. Brightness* <sup>1</sup> 1,500 cd/m <sup>2</sup>
	Contrast Ratio 1,000,000 : 1 (local dimming set to HIGH) 5,000 : 1 (without local dimming)
	Viewing Angle (H/V) 176°/176° (CR ≥ 10)
Computer Input	Active Screen Area (W x H) 52 5/8" x 29 1/16" (1328.8 x 747.1 mm)
	Response Time 6 ms (gray to gray, avg.)
Computer Input	Video Analog RGB (0.7 Vp-p) [75 Ω], Digital (conforms to DVI 1.0 standards)
	Synchronization Horizontal/vertical separation (TTL: positive/negative) Sync-on-green, Composite sync (TTL: positive/negative)
	Plug & Play VESA DDC2B
	Power Management VESA DPMS, DVI DMPM
Video Color System NTSC (3.58 MHz, 4.43 MHz)* <sup>2</sup> / PAL / PAL60 / SECAM	
Input Terminals* <sup>3</sup>	Standard PC analog: Mini D-sub 15-pin x 1*, HDMI® (1080p compatible) x 1*, 3.5 mm-diameter mini stereo jack x 1, Video*, Component video*, RS-232C: D-sub 9-pin x 1, Control Kit jack x 1
	Via Optional PN-ZB02 Board PC digital: DVI-D 24-pin (HDCP compatible) x 1, PC analog: BNC x 1, Video: BNC x 1*, S-Video x 1, Component video: BNC (Y, Cb/Pb, Cr/Pr) x 1*, Audio: RCA pin (L/R) x 2
Output Terminals* <sup>3</sup>	Standard Audio: RCA pin (L/R) x 1, RS-232C: D-sub 9-pin x 1
	Via Optional PN-ZB02 Board PC digital: DVI-D 24-pin x 1, External speaker: 10W + 10W (6 Ω)
Input/Output Terminals* <sup>3</sup>	Via Optional PN-ZB02 Board LAN port (10Base-T/100Base-TX)
Mounting VESA (6 points), 7 7/8" (200 mm) pitch, M6 screw or VESA (4 points), 7 7/8" (200 mm) pitch, M6 screw	
Power Supply 100V - 240V AC, 50/60 Hz	
Power Consumption 510W (local dimming: OFF)	
Environmental Conditions	Operating Temperature 0°C to 40°C
	Operating Humidity 20% to 80% RH (no condensation)
Dimensions (W x D x H) (approx.) 52 5/8" x 5 7/8" x 29 11/16" (1,335.9 x 149.3 x 754.2 mm) (Display section only, not including protrusions)	
Weight (not including PN-ZB02) (approx.) 44 kg (97 lbs)	
Packing Dimensions (W x D x H) (approx.) 62 1/4" x 15" x 36 3/4" (1,580 x 381 x 932 mm)	
Limited Warranty 3 years on-site, parts and labor	
UPC 074000069084	

\*1 Brightness will depend on input mode and other picture settings. Brightness level will decrease over time. Due to the nature of the equipment, it is not possible to precisely maintain a constant level of brightness. \*2 Requires separately sold PN-ZB02 Interface Expansion Board. \*3 Use a commercially available connection cable for PC and other video connections.

\*4 The mini D-sub 15-pin connector may be used with an analog RGB computer source, component video source or composite video source. This is menu selectable. When used with a component or composite video source, a commercially available conversion cable is required. \*5 For both PC and AV components. \*6 When the PN-V602 is equipped with the optional PN-ZB02 board, either the LCD monitor's standard-equipped video and component terminals or the PN-ZB02's video and component terminals can be selected for use from the menu.

## Dimensions



Units: inch (mm)

\* Screen dimensions

\* To use the VESA-standard mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket.

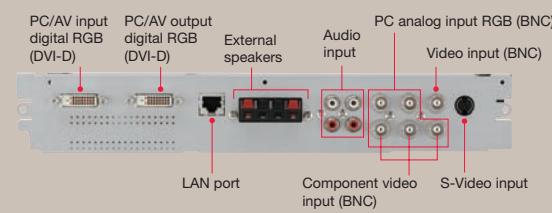
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### Input/Output Terminals (standard)



### PN-ZB02 Interface Expansion Board (option)



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Design and specifications subject to change without prior notice.

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# SHARP

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